



# Case Study

## Marine Division

### HMS VIGILANT Long Overhaul Period (Refuel)

#### Client:

Royal Navy and UK MoD

#### Contract Description:

Major overhaul and refuel of a Vanguard Class (TSSBN) submarine.

#### Marine Division

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#### The requirement

The Vanguard Class ballistic nuclear submarine HMS VIGILANT is the third in Class to undergo a LOP(R) at Devonport. This is a challenging and complex project with a target programme of 162 weeks. The joint Babcock and MoD Project Team's challenge is to safely deliver HMS Vigilant back to the Fleet to agreed time, cost and quality.

The overall timescale of this Long Overhaul Period (Refuel) will be dictated by the refuel process and subsequent reactor commissioning. This will be supported by a major revalidation package of all reactor systems and replacement of major equipment such as the main coolant pumps, reactor pressure vessel head and instrumentation suite.

In parallel main engines, turbo generators and propulsion systems will be subject to major overhaul. This will include a tailshaft replacement and propulsor change.

The tactical and strategic weapons systems will receive a significant number of upgrades.

Accommodation and mess decks will be upgraded, derived jointly by ships's staff and the joint Babcock and MoD project team.

Externally a major represervation and retiling package will be undertaken.

#### Meeting the challenge

The project is being executed under a new commercial framework which is focused on:

- rewarding performance
- joint working
- reduction of caveats

Within this new commercial model, Babcock is committed to a contracting arrangement which supports greater transparency of information, fully supports joint working and concentrates on cost reduction whilst improving safety and quality standards.



#### Key facts and figures

- Contract price in excess of £300 million
- More than 2.2 million man hours
- Over 2000 people will be involved
- Circa 26,000 items to be removed and overhauled
- Circa 3500 planned surveys
- In the order of 200 upgrades
- Will involve over 80 subcontractors and many more suppliers